

**MODULATED ACOUSTIC AGGLOMERATION SYSTEM AND METHOD**

**ABSTRACT**

An acoustic agglomerator for agglomerating constituents in a fluid is provided. The acoustic agglomerator includes an area containing a fluid having constituents and an acoustic generator operable to generate a modulated acoustic field to enhance agglomeration of the constituents in the fluid. In one aspect the acoustic field is frequency modulated and in other aspects the acoustic field is amplitude modulated, while yet in other aspects the acoustic field is both frequency and amplitude modulated. A method for agglomerating constituents in a fluid is also provided. The method includes providing a fluid with a constituent and applying an acoustic field to the fluid. The method provides for modulating the acoustic field to cause the constituent to agglomerate.